

CLAIMS

What is claimed is:

- 1 1. A method for specifying a return of specific data in response to a search query issued to a
2 subscribe and publish communication interface, said method comprising:
3 generating a subscription object containing a primary identifier (ID) of a published data;
4 and
5 including within said subscription object an expression indicating a specific context
6 desired for satisfying the subscription object once the published data is identified on the
7 communication interface;
8 wherein, once the subscription object is placed on the subscribe and publish
9 communication interface, a response to the subscription object is only provided following
10 publication of the published data and a confirmation of the specific context.

- 1 2. The method of Claim 1, further comprising:
2 providing within said subscription object an address of a node associated with a
3 subscribing component, which generated said subscription object; and
4 registering said node within said communicating interface as requesting at least a
5 notification of said published data, wherein said node receives a notification when only a
6 notification is desired and said node receives said published data when said published data is
7 requested.

- 1 3. The method of Claim 2, further comprising:
2 flagging a registration of said node to indicate additional criteria needs to be satisfied
3 prior to issuing the notification or forwarding published data to said node; and
4 matching an ID of a newly published data to a primary ID of a desired published data; and
5 when the registration has an associated flag, verifying that said additional criteria is satisfied
6 before indicating a match.

1 4. The method of Claim 2, further comprising expanding a registration of said node to
2 include said expression.

1 5. The method of Claim 1, wherein said expression is one or a combination of a logical
2 expression and a condition expression.

1 6. The method of Claim 2, wherein, when said expression is a logical expression requiring a
2 publication of two or more different data each having unique data type IDs, said method further
3 comprises:

4 retrieving an associated data type ID for each publication to the communication interface;
5 comparing the publication's data type ID against each unique data type ID within said logical
6 expression; and

7 providing the response to said subscription object only when each of said data type IDs
8 are matched against publication data type IDs.

1 7. The method of Claim 6, wherein said subscription component is an agent and said
2 method further comprises:

3 receiving confirmation that all criteria within said expression has been satisfied; and
4 completing a secondary function when said confirmation is received.

1 8. The method of claim 7, wherein said subscribe and publish communication interface is an
2 information kit and said subscription object is an information kit subscription object.

1 9. The method of Claim 1, further comprising:

2 providing a query expression within said subscription object containing an operand other
3 than a wildcard for uniquely differentiating said query from a query for a generic response;
4 publishing said query to an information kit; and receiving a response containing a
5 publication object satisfying said entire query
6 expression.

1 10. A system for controlling a return of specific data in response to a search query issued to a
2 subscribe and publish communication interface, said system comprising:

3 means for generating a subscription object containing a primary identifier (ID) of a
4 published data; and

5 means for including within said subscription object an expression indicating a specific
6 context desired for satisfying the subscription object once the published data is identified on the
7 communication interface;

8 wherein, once the subscription object is placed on the subscribe and publish
9 communication interface, a response to the subscription object is only provided following
10 publication of the published data and a confirmation of the specific context.

1 11. The system of Claim 10, further comprising:

2 means for providing within said subscription object an address of a node associated with
3 a subscribing component, which generated said subscription object; and

4 means for registering said node within said communicating interface as requesting at least
5 a notification of said published data, wherein said node receives a notification when only a
6 notification is desired and said node receives said published data when said published data is
7 requested.

1 12. The system of Claim 11, further comprising:

2 means for flagging a registration of said node to indicate additional criteria needs to be
3 satisfied prior to issuing the notification or forwarding published data to said node; and

4 means for matching an ID of a newly published data to a primary ID of a desired
5 published data; and

6 means, when the registration has an associated flag, for verifying that said additional
7 criteria is satisfied before indicating a match.

1 13. The system of Claim 11, further comprising means for expanding a registration of said
2 node to include said expression.

1 14. The system of Claim 10, wherein said expression is one or a combination of a logical
2 expression and a condition expression.

1 15. The system of Claim 11, wherein, when said expression is a logical expression requiring
2 a publication of two or more different data each having unique data type IDs, said system further
3 comprises:

4 means for retrieving an associated data type ID for each publication to the
5 communication interface;

6 means for comparing the publication's data type ID against each unique data type ID
7 within said logical expression; and

8 means for providing the response to said subscription object only when each of said data
9 type IDs are matched against publication data type IDs.

1 16. The system of Claim 15, wherein said subscription component is an agent and said
2 system further comprises:

3 means for receiving confirmation that all criteria within said expression has been
4 satisfied; and

5 means for completing a secondary function when said confirmation is received.

1 17. The system of claim 16, wherein said subscribe and publish communication interface is
2 an information kit and said subscription object is an information kit subscription object.

1 18. The system of Claim 10, further comprising:

2 means for providing a query expression within said subscription object containing an
3 operand other than a wildcard for uniquely differentiating said query from a query for a generic
4 response;

5 means for publishing said query to an information kit; and means for receiving a response
6 containing a publication object satisfying said entire query expression.

1 19. A computer program product comprising:
2 a computer readable medium; and
3 program code on said computer readable medium for specifying a return of specific data
4 in response to a search query issued to a subscribe and publish communication interface, said
5 program code further comprising code for:
6 generating a subscription object containing a primary identifier (ID) of a published data;
7 and
8 including within said subscription object an expression indicating a specific context
9 desired for satisfying the subscription object once the published data is identified on the
10 communication interface;
11 wherein, once the subscription object is placed on the subscribe and publish
12 communication interface, a response to the subscription object is only provided following
13 publication of the published data and a confirmation of the specific context.

1 20. The computer program product of Claim 19, further comprising code for:
2 providing within said subscription object an address of a node associated with a
3 subscribing component, which generated said subscription object; and
4 registering said node within said communicating interface as requesting at least a
5 notification of said published data, wherein said node receives a notification when only a
6 notification is desired and said node receives said published data when said published data is
7 requested.

1 21. The computer program product of Claim 20, further comprising code for:
2 flagging a registration of said node to indicate additional criteria needs to be satisfied
3 prior to issuing the notification or forwarding published data to said node; and
4 matching an ID of a newly published data to a primary ID of a desired published data;
5 and
6 when the registration has an associated flag, verifying that said additional criteria is
7 satisfied before indicating a match.

1 22. The computer program product of Claim 20, further comprising code for expanding a
2 registration of said node to include said expression.

1 23. The computer program product of Claim 19, wherein said expression is one or a
2 combination of a logical expression and a condition expression.

1 24. The computer program product of Claim 20, wherein, when said expression is a logical
2 expression requiring a publication of two or more different data each having unique data type
3 IDs, said program code further comprises code for:

4 retrieving an associated data type ID for each publication to the communication interface;
5 comparing the publication's data type ID against each unique data type ID within said logical
6 expression; and

7 providing the response to said subscription object only when each of said data type IDs
8 are matched against publication data type IDs.

1 25. The computer program product of Claim 24, wherein said subscription component is an
2 agent and said program code further comprises code for:

3 receiving confirmation that all criteria within said expression has been satisfied; and
4 completing a secondary function when said confirmation is received.

1 26. The computer program product of claim 25, wherein said subscribe and publish
2 communication interface is an information kit and said subscription object is an information kit
3 subscription object.

27. The computer program product of Claim 19, further comprising code for:

providing a query expression within said subscription object containing an operand other
than a wildcard for uniquely differentiating said query from a query for a generic response;

publishing said query to an information kit; and receiving a response containing a
publication object satisfying said entire query expression.